

# Executive Summary Report

## SMOG CHECK Statewide

Year 2007

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	9,318,979	1,157,599	12.42%
Total	10,911,419	1,532,909	14.05%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	7,976,589	85.60%	1,342,390	14.40%
Total	9,120,297	83.58%	1,791,122	16.42%

### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	4,721,319	85.64%	791,361	14.36%
Total	5,444,923	84.37%	1,008,409	15.63%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	200,572	2.15%
All Emissions	650,843	6.98%
All Visual	129,647	1.39%
All Functional	356,637	3.83%
OBDII	351,114	3.77%
Overall	1,157,599	12.42%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	7,404,984	936,162	12.64%	158,697	2.14%
Partially Enhanced	442,945	63,206	14.27%	10,866	2.45%
Basic	853,947	95,529	11.19%	19,857	2.33%
Change of Ownership	68,189	9,528	13.97%	2,670	3.92%
No Program	66	11	16.67%	3	4.55%
Unknown Program	548,848	53,163	9.69%	8,479	1.54%
Total Program Area	9,318,979	1,157,599	12.42%	200,572	2.15%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	5,512,680	771,495	13.99%	142,099	2.58%
Regular	3,178,956	303,896	9.56%	44,468	1.40%
Basic Area Dealer	62,627	3,253	5.19%	431	0.69%
Gold Shield in Enhanced Area	375,953	50,921	13.54%	7,640	2.03%
Gold Shield in Basic Area	86,226	12,875	14.93%	2,919	3.39%
Gold Shield in COO Area	53,070	6,960	13.11%	1,877	3.54%
Business Fleet	366	21	5.74%	0	0.00%
Permanent Fleet Registered	981	114	11.62%	15	1.53%
Referee	9,051	4,619	51.03%	825	9.12%
Government Fleet	39,051	3,445	8.82%	298	0.76%
Unknown Privilege	18	0	0.00%	0	0.00%
Total	9,318,979	1,157,599	12.42%	200,572	2.15%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	2,646,429	2,352,642
Directed Vehicles	2,866,251	2,368,677
Total	5,512,680	4,721,319

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	471,624	403,149
Directed Vehicles	43,625	32,580
Total	515,249	435,729

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## 6. Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-0	6	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1952	1	1	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1953	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1959	1	1	100.00%	100.00%	0.00%	0.00%	100.00%	0.00%
MY-1960	2	2	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1965	6	6	100.00%	100.00%	16.67%	0.00%	50.00%	0.00%
MY-1966	9	6	66.67%	33.33%	0.00%	33.33%	22.22%	0.00%
MY-1967	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1968	6	3	50.00%	33.33%	16.67%	16.67%	33.33%	0.00%
MY-1969	5	2	40.00%	40.00%	0.00%	0.00%	20.00%	0.00%
MY-1970	9	4	44.44%	11.11%	0.00%	22.22%	22.22%	0.00%
MY-1971	2	1	50.00%	50.00%	50.00%	0.00%	0.00%	0.00%
MY-1972	14	7	50.00%	21.43%	21.43%	42.86%	28.57%	0.00%
MY-1973	11	2	18.18%	18.18%	0.00%	9.09%	0.00%	0.00%
MY-1974	73	19	26.03%	23.29%	6.85%	16.44%	10.96%	0.00%
MY-1975	186	49	26.34%	18.82%	10.75%	16.13%	8.60%	0.00%
MY-1976	17,711	4,939	27.89%	20.98%	10.19%	14.89%	8.84%	0.00%
MY-1977	25,407	6,501	25.59%	18.37%	8.76%	13.81%	7.71%	0.00%
MY-1978	28,691	7,472	26.04%	19.27%	9.21%	13.68%	7.63%	0.00%
MY-1979	32,651	9,212	28.21%	21.67%	10.60%	14.79%	8.40%	0.00%
MY-1980	20,111	5,567	27.68%	21.61%	11.34%	14.96%	8.28%	0.00%
MY-1981	23,745	6,951	29.27%	23.77%	11.38%	15.34%	8.15%	0.00%
MY-1982	28,237	8,164	28.91%	23.51%	10.73%	14.72%	7.53%	0.00%
MY-1983	38,371	11,046	28.79%	23.42%	10.95%	14.65%	7.31%	0.00%
MY-1984	71,234	21,273	29.86%	24.59%	12.27%	15.22%	7.01%	0.00%
MY-1985	96,962	27,592	28.46%	23.21%	11.07%	14.69%	6.14%	0.00%
MY-1986	138,264	35,702	25.82%	20.32%	9.13%	13.46%	5.03%	0.00%
MY-1987	165,359	44,488	26.90%	21.90%	8.86%	13.01%	4.57%	0.00%
MY-1988	197,931	46,860	23.67%	18.84%	7.27%	11.63%	3.78%	0.00%
MY-1989	263,538	55,556	21.08%	16.28%	5.85%	10.43%	3.12%	0.00%
MY-1990	304,400	59,248	19.46%	15.21%	5.17%	9.21%	2.44%	0.00%
MY-1991	349,704	62,152	17.77%	13.79%	4.45%	8.23%	1.96%	0.00%
MY-1992	342,604	56,186	16.40%	12.66%	3.98%	7.23%	1.78%	0.00%
MY-1993	413,732	73,577	17.78%	14.37%	3.28%	6.85%	1.73%	0.00%
MY-1994	450,505	66,666	14.80%	11.28%	2.41%	5.94%	1.66%	0.00%
MY-1995	661,545	79,232	11.98%	8.64%	1.76%	4.86%	1.29%	0.00%
MY-1996	421,507	73,743	17.50%	6.88%	1.10%	1.66%	1.10%	11.84%
MY-1997	791,376	96,330	12.17%	4.16%	0.71%	1.16%	0.76%	8.39%
MY-1998	568,755	63,076	11.09%	3.18%	0.56%	0.88%	0.68%	8.10%
MY-1999	1,030,491	73,099	7.09%	1.53%	0.28%	0.54%	0.45%	5.34%
MY-2000	530,377	41,923	7.90%	1.32%	0.30%	0.64%	0.45%	6.29%
MY-2001	1,463,298	89,619	6.12%	0.58%	0.14%	0.56%	0.30%	5.20%
MY-2002	281,450	12,140	4.31%	0.45%	0.11%	0.35%	0.24%	3.42%
MY-2003	257,255	9,036	3.51%	0.32%	0.08%	0.25%	0.15%	2.70%
MY-2004	104,513	3,796	3.63%	0.22%	0.06%	0.26%	0.19%	2.76%
MY-2005	74,170	2,621	3.53%	0.33%	0.05%	0.26%	0.33%	2.61%
MY-2006	76,366	2,379	3.12%	0.24%	0.06%	0.20%	0.23%	2.48%
MY-2007	46,062	1,296	2.81%	0.46%	0.15%	0.20%	0.50%	2.00%
MY-2008	2,318	52	2.24%	0.22%	0.00%	0.04%	0.09%	1.86%
MY-2009	4	1	25.00%	0.00%	0.00%	0.00%	0.00%	25.00%
All Model Years	9,318,979	1,157,599	12.42%	6.98%	2.15%	3.83%	1.39%	3.77%

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## 7. Referee Activity

	Certificates Issued
Certificate of Compliance	7,643
Certificate of Non Compliance	12
Parts Cost	1,042
Hardship Extensions	1,683
Exempt Vehicle	577
Exempted by Directive	1,455
Parts Exemption	27
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>12,439</b>

## 8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,201
Stations Locked-Out at Least Once	1,639
Stations Conducted at Least One Test	8,927

## 9. Active Technicians

		Technician Count	Daily Average
EA	Both Endorsement	12,370	5,971
EA	Gas Endorsement	17	0
EB	Both Endorsement	73	0
EB	Gas Endorsement	622	0
GU	Both Endorsement	20	0

## 10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	4,908,747	48.28	501,508	48.64	5,410,255	48.31
Test and Repair	2,172,856	46.68	966,372	44.51	3,139,228	46.01
Test and Repair Dealer	192	57.66	62,401	46.89	62,593	46.92
Referee	5,172	30.00	1,949	30.00	7,121	30.00
Gold Shield in Enhanced Area	283,518	46.64	92,174	42.32	375,692	45.58
Gold Shield in Basic Area	312	62.83	85,609	33.97	85,921	34.08
Gold Shield in COO Area	5,812	55.72	49,690	48.42	55,502	49.18

## 11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	85,539	22.34	<b>281,767</b>	<b>206.82</b>
	\$51-150	72,296	100.64		
	\$151-250	46,177	199.14		
	\$251-450	47,362	335.38		
	Over \$450	30,393	789.94		
CAP Repairs	\$0-50	1,911	25.49	<b>40,381</b>	<b>337.31</b>
	\$51-150	4,335	106.66		
	\$151-250	6,641	203.22		
	\$251-450	15,322	347.89		
	Over \$450	12,172	528.25		
Total Repairs	\$0-50	76,767	22.59	<b>292,820</b>	<b>245.53</b>
	\$51-150	61,733	100.89		
	\$151-250	48,792	199.76		
	\$251-450	60,079	340.04		
	Over \$450	45,449	742.76		

## 12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	40,381	337.31

## 13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	61	10	1	0	4	6	3	1
Acceleration Simulation Mode (ASM)	Basic	Referee	11	13	2	3	5	7	2	4

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	538	98	16	1	36	50	28	7
Acceleration Simulation Mode (ASM)	Basic	Test Only	449	88	15	5	26	59	26	9
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	8	3	1	0	0	3	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	2	6	1	4	0	2	2	4
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	74	8	1	0	2	5	3	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	51	11	1	2	2	8	3	2
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	197	19	0	0	1	15	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	252	25	4	1	7	13	10	2
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	2,768	383	49	26	106	205	126	56
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	197,491	31,427	3,944	1,696	12,663	14,636	8,586	3,546
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	1,252	54	15	574	499	137	14
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	239	53	2	0	27	25	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	2,702	2,755	489	1,188	534	1,485	945	1,535
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	1,532,809	161,795	19,176	8,274	70,775	71,610	42,065	15,025
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	55	3	0	0	1	2	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	3,999,784	685,440	125,811	38,486	173,258	435,496	220,879	76,279
Acceleration Simulation Mode (ASM)	No Program	Test and Repair	25	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	No Program	Test Only	21	10	3	0	5	4	2	0
Acceleration Simulation Mode (ASM)	Partial	Business-Fleet	27	2	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	30	5	0	0	3	3	1	1

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Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	335	65	5	6	11	41	18	11
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	26,192	5,786	1,000	301	1,652	3,483	1,659	668
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	25	7	1	4	16	6	1
Acceleration Simulation Mode (ASM)	Partial	Referee	110	177	41	87	39	95	68	130
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	196,949	34,993	5,750	1,992	9,315	20,853	10,909	3,914
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	111	13	1	0	4	8	2	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	107,202	18,702	3,272	1,194	4,865	11,441	5,585	2,351
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	158	32	7	6	8	18	13	5
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	14,924	2,575	390	183	964	1,362	690	354
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	1,733	154	6	409	1,233	153	10
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	546	334	64	133	88	158	140	204
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	169,963	17,339	2,325	1,044	7,260	8,173	4,096	1,903
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	145,899	19,764	3,614	1,308	7,105	11,338	5,172	2,457
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	61,881	11,629	2,713	789	2,666	5,240	4,812	1,642
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	2,460	369	84	32	90	168	154	56
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	37,837	6,142	1,221	370	1,843	2,390	2,503	932
Two Speed Idle (TSI)	Basic	Government Fleet	0	101	15	2	44	41	13	2
Two Speed Idle (TSI)	Basic	Permanent Fleet Registered	7	4	1	1	0	2	2	3
Two Speed Idle (TSI)	Basic	Referee	369	372	78	160	79	140	180	231
Two Speed Idle (TSI)	Basic	Test and Repair	497,404	61,470	12,516	3,582	17,686	25,768	23,757	7,565
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	44,482	2,630	403	128	892	890	814	311
Two Speed Idle (TSI)	Basic	Test Only	85,946	12,593	2,792	808	3,626	5,771	3,972	1,661
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	636	114	29	13	38	50	49	25

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Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	22,266	4,222	1,289	310	770	2,433	1,600	597
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	1,328	304	92	21	77	146	135	46
Two Speed Idle (TSI)	Change of Ownership	Referee	35	44	11	21	5	14	22	32
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	22,700	3,267	806	241	852	1,565	1,276	459
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	493	31	4	4	14	9	7	6
Two Speed Idle (TSI)	Change of Ownership	Test Only	9,502	1,516	435	117	371	811	498	212
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	4,559	440	61	28	229	112	104	39
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	5,022	476	76	22	223	143	120	40
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	32,431	3,651	775	236	1,559	1,380	959	482
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	261	52	5	87	107	37	7
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	347	50	11	4	0	25	27	17
Two Speed Idle (TSI)	Enhanced	Referee	541	302	47	133	92	99	61	191
Two Speed Idle (TSI)	Enhanced	Test and Repair	248,574	17,188	2,507	867	8,928	4,878	3,801	1,672
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	5,245	263	7	7	198	17	29	11
Two Speed Idle (TSI)	Enhanced	Test Only	330,417	30,285	5,632	1,320	14,616	10,806	6,399	2,639
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	472	57	7	6	26	18	18	8
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	414	63	14	6	24	21	23	8
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	2,465	322	85	15	118	140	89	37
Two Speed Idle (TSI)	Partial	Government Fleet	0	4	1	0	1	1	0	0
Two Speed Idle (TSI)	Partial	Referee	36	15	3	5	6	5	5	8
Two Speed Idle (TSI)	Partial	Test and Repair	20,692	2,048	471	137	749	843	626	282
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	594	23	1	0	15	2	6	0
Two Speed Idle (TSI)	Partial	Test Only	8,931	899	208	59	319	381	238	127
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	4,258	605	105	49	234	198	235	102
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	11,491	1,350	353	113	391	663	485	204
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	5,986	701	131	51	285	246	228	98
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	68	15	4	20	37	5	5
Two Speed Idle (TSI)	Unknown Program	Permanent Fleet Registered	10	6	1	0	0	1	4	3

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Unknown Program	Referee	431	286	89	31	27	196	44	209
Two Speed Idle (TSI)	Unknown Program	Test and Repair	66,685	5,689	900	337	2,734	1,765	1,485	638
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	6,163	290	15	15	181	34	60	23
Two Speed Idle (TSI)	Unknown Program	Test Only	33,114	2,187	316	126	1,243	618	415	224
UnKnown TestType	Basic	Referee	10	10	0	0	0	10	0	9
UnKnown TestType	Change of Ownership	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Referee	87	94	0	3	0	94	3	87
UnKnown TestType	Partial	Referee	7	7	0	0	0	7	0	6
UnKnown TestType	Unknown Program	Referee	202	203	0	0	1	203	0	196

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